Amendment to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application using (Original) (Currently Amended) (New) (Canceled) (Previously Presented) nomenclature, as recited in the below listing of claims.

1.(Currently Amended) A system for communicating an analog input signal as a modulated binary laser signal over a communication medium recovered as a[[n]] digital output signal, the system comprising

a sigma delta modulator for receiving the analog input signal and modulating the analog signal into a modulated symbol signal,

a transmitter for converting the modulated symbol signal into the modulated binary laser signal, and for transmitting the modulated binary laser signal over the communication medium, the modulated binary laser signal having a pulse width having a duration representative of the analog input signal, the modulated binary laser signal being transmitted asynchronously,

a receiver for receiving and detecting the pulse width of modulated binary laser signal for providing a received symbol signal, and

a digital filter for filtering the symbol signal into the digital output signal.

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2. (Original) The system of claim 1 wherein the transmitter comprises,

a symbol to binary converter for converting the modulated symbol signal from the sigma delta modulator into a converted digital signal, and

a pulse width modulator for modulating the laser signal by the converted digital signal into the modulated binary laser signal as a pulse width binary modulated laser signal communicated over the communication medium.

3. (Original) The system of claim 2 wherein the receiver comprises,

a pulse width detector receiving the pulse width modulated binary laser signal and for providing a detected binary signal, and

a binary to symbol converter for converting the detected binary signal into the received symbol signal.

4. (Previously Presented) The system of claim 3 wherein,

the pulse width detector is a pulse width quantizer detector,

the detected binary signal is a detected quantized signal, and

the binary to symbol converter converts the detected quantized signal into the received symbol signal.

5. (Original) The system of claim 1 further comprising,

a timing recovery loop for generating a timing signal from the receive symbol signal for clocking the digital filter.

6. (Original) The system of claim 1 wherein,

the sigma delta modulator is a first order sigma delta modulator.

7. (Original) The system of claim 1 wherein,

the sigma delta modulator is a second order sigma delta modulator.

8. (Original) The system of claim 1 wherein the communication medium is a fiber optic.

9. (Canceled)

10. Canceled)

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11. (Currently Amended) A system for communicating an analog input signal as a pulse width modulated binary laser signal over a communication medium recovered as a digital output signal, the system comprising

a sigma delta modulator for receiving the analog input signal and modulating the analog signal into a modulated symbol signal,

a transmitter for converting the modulated symbol signal into a converted digital signal for pulse width modulating a laser signal into the pulse width modulated binary laser signal, and for transmitting the pulse width modulated binary laser signal over the communication medium, the modulated binary laser signal having a pulse width having a duration representative of the analog input signal, the modulated binary laser signal being transmitted asynchronously through the communication medium,

a receiver for receiving and detecting the pulse width of the pulse width modulated binary laser signal to provide a detected binary signal and for converting the detected binary signal into a received symbol signal, and

a digital filter for filtering the symbol signal into the digital output signal.

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12. (Currently Amended) The system of claim 1 wherein the modulated digital laser signal is frame asynchronously communicated over the communication medium.

13. (Currently Amended) The system of claim 11 wherein the modulated digital laser signal is frame asynchronously communicated over the communication medium.

14. (New) The system of claim 1 wherein the modulated digital laser signal is for bit asynchronously communicated over the communication medium.

15. (New) The system of claim 11 wherein the modulated digital laser signal is for bit asynchronously communicated over the communication medium.

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